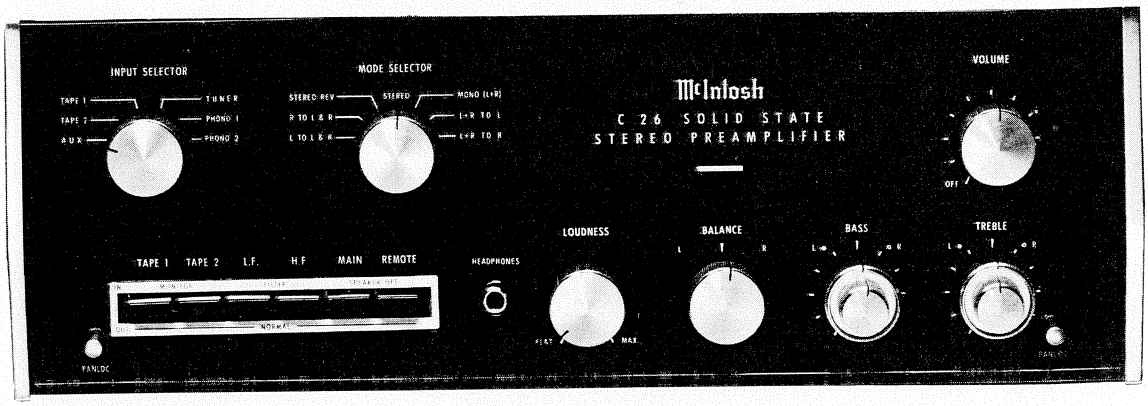
McIntosh

C 26

PREAMPLIFIER



SERVICE INFORMATION

STARTING WITH SERIAL NO. 10P01

ELECTRICAL SPECIFICATIONS

FREQUENCY RESPONSE

+0 to -0.5dB from 20Hz to 20,000Hz

DISTORTION

Less than 0.1% at 2.5 volts output, 20Hz to 20,000Hz

INPUT SENSITIVITY (phono 1 and phono 2)

2 millivolts for 2.5 volts output at 1kHz

INPUT SENSITIVITY (aux, tape 1, tape 2, tuner)

0.25 volts for 2.5 volts output

HUM AND NOISE (phono 1 and phono 2)

74dB below rated output for a 10 millivolt input signal

HUM AND NOISE (aux, tape 1, tape 2, tuner)

85dB below rated output

OUTPUT (main)

2.5 volts with rated input. Up to 10 volts can be developed without distortion.

OUTPUT (tape)

0.25 volts with rated input. Phono input signal of 10 millivolts produces 1.2 volts output.

OUTPUT (center channel)

2.5 volts with rated input on both channels. A level control adjusts output from -6dB to +6dB with respect to main output.

BASS CONTROL

-20dB to +16dB at 20Hz

TREBLE CONTROL

±20dB at 20,000Hz

LF FILTER

Flat or roll off below 50Hz, down 12dB at 20Hz

HF FILTER

Flat or roll of above 5,000Hz, down 12dB at 20,000Hz

LEFT CHANNEL PREAMP SECTION PRINTED CIRCUIT BOARD 044-554

LEFT CHANNEL INPUTS

PH 2
PH 1
TUNER
TAPE 1
TAPE 2
AUX
TAPE 1 OUT
TAPE 2 OUT

RIGHT CHANNEL INPUTS

PH 2
PH 1
TUNER
TAPE 1
TAPE 2
AUX
TAPE 1 OUT
TAPE 2 OUT

SECTION 1 REAR
SECTION 1 FRONT
SECTION 2 REAR
SECTION 2 FRONT

NORMAL MONITOR

S1 INPUT SELECTOR (SHOWN IN PHONO 2 POSITION)
S2 A TAPE 1
S2 B TAPE 2
S2 C L.F. FILTER
S2 D H.F. FILTER
S3 MODE SELECTOR SHOWN IN STEREO POSITION
S4 (PHASE)
R33 VOLUME
R55 LOUDNESS
R56 BALANCE

FLAT FILTER
FLAT
MAX.
CCW

NOTE 8
NOTE 9
NOTE 10
NOTE 11

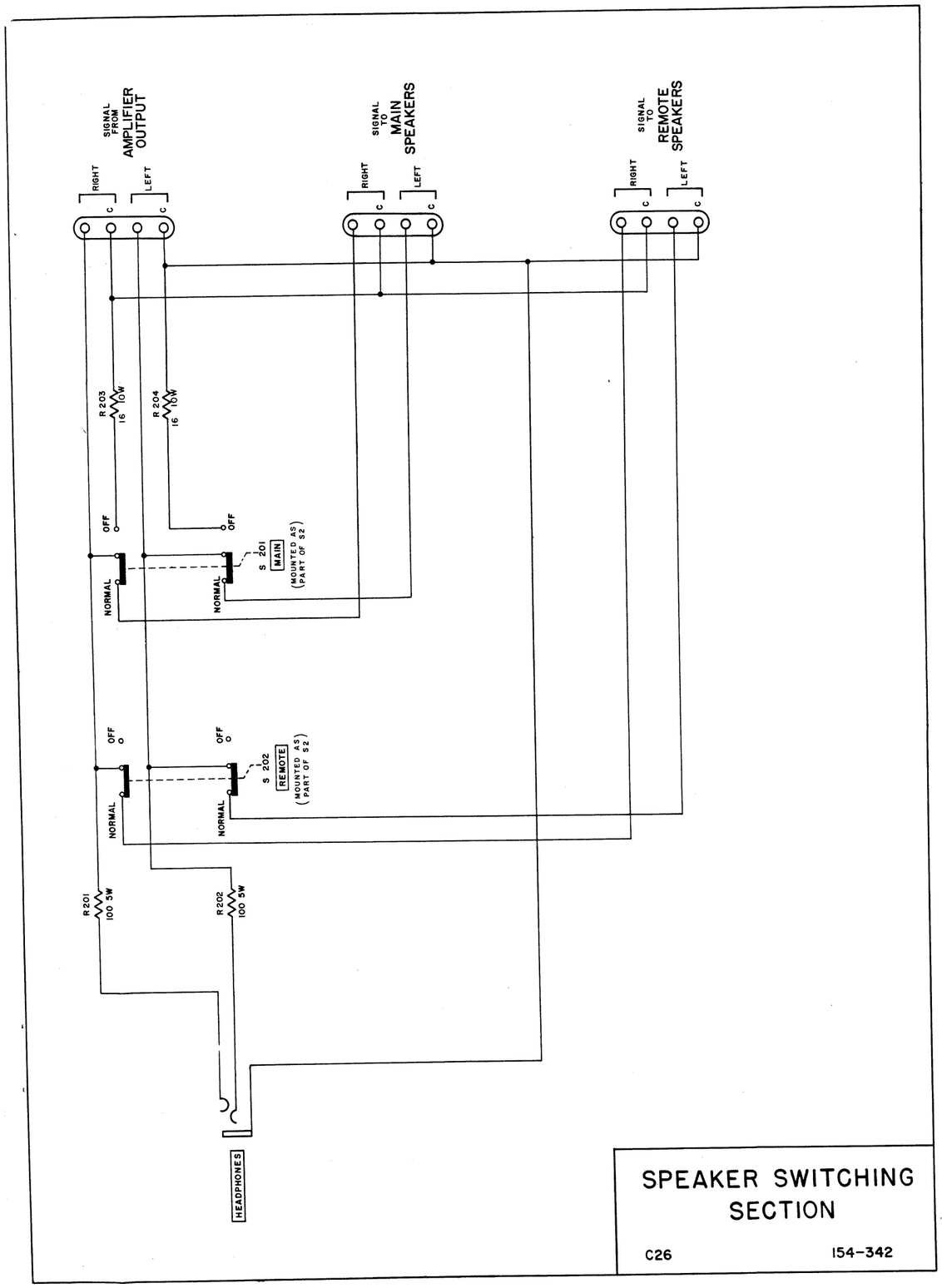
RIGHT CHANNEL PREAMP SECTION PRINTED CIRCUIT BOARD 044-553

LEFT CHANNEL PREAMP SECTION PRINTED CIRCUIT BOARD 044-554

RIGHT CHANNEL PREAMP SECTION PRINTED CIRCUIT BOARD 044-553

PREAMP SECTION

C 26 154 - 656



SPEAKER SWITCHING SECTION

C26 154-342

REPLACEMENT PARTS

All parts not listed are common items obtainable from radio parts jobbers.

Replacement parts may be obtained when ordered by PART NUMBER from:

McIntosh Laboratory, Inc.
Customer Service Department
2 Chambers Street
Binghamton, New York 13903
(telephone 607-723-3512)

Symbol Number	Description			Part Number
	CAPACITORS			
C1,2	Mylar	.47µF	250V	064-069
C5,6	Elect.	10µF	35V	066-239
C7,8	Elect.	10µF	35V	066-239
C15,16	Elect.	100µF	16V	066-226
C17,18	Mylar	.47µF	250V	064-069
C19,20	Mylar	.22µF	200V	064-087
C21,22	Mylar	.047µF	250V	064-066
C23,24	Mylar	.47µF	250V	064-069
C25	Mylar	.47µF	250V	064-069
C26,27	Mylar	.047µF	250V	064-066
C28,29	Mylar	.022µF	250V	064-065
C34,35	Mylar	.022µF	250V	064-064
C36,37	Mylar	.1µF	250V	064-067
C38,39	Mylar	.47µF	250V	064-069
C44,45	Mylar	.047µF	250V	064-066
C46.47	Mylar	.47µF	250V	064-069
C301	Mylar	.22µF	250V	064-068
C302	Mylar	.47µF	250V	064-069
C304	Elect.	160/200µF 200/150V		066-095
C305	Elect.	160/200µF 200/150V		066-095
C306	Mylar	.22µF	250V	064-068
C307	Elect.	100µF	16V	066-226
C308	Elect.	100µF	16V	066-227
	DIODES			
D301,302	Si. rectifier			070-031
D303	Zener diode 75V			070-025
	FUSES			
F301	Fuse 1/2 ampere			089-009
	TRANSISTORS			
Q1,2	Si. PNP transistor			132-096
Q3,4	Si. PNP transistor			132-096
Q5,6	Si. NPN transistor			132-095
Q7,8	Si. NPN transistor			132-095
Q9,10	Si. PNP transistor			132-096
Q11,12	Si. NPN transistor			132-095
Q13,14	Si. NPN transistor			132-092
Q15,16	Si. NPN transistor			132-042
Q301	Si. NPN transistor			132-095
Q302	Si. NPN transistor			132-028
	POTENTIOMETERS			
R33	Volume control			134-200
R55	Loudness control			134-199
R56	Balance control			134-198
R304	Center channel level			134-196
	RESISTORS			
R201,202	Wirewound	100Ω	10% 5W	139-008
R203,204	Wirewound	16Ω	10% 20W	139-022
	SWITCHES			
S1	Input selector switch			146-121
S2	Pushbutton switch			150-006
S3	Mode selector switch			146-122
S4	Phase control switch			146-119
S5	Bass switch			146-123
S6	Treble switch			146-123
S201,202	Speaker switch			148-025
	TRANSFORMERS			
T301	Power transformer			043-786
	MODULES			
	Tone control			130-027
	LAMPS			
	#1866 (front panel)			058-014
	FRONT PANEL AND TRIM			
	Front panel			043-784
	Front panel end caps			018-120
	Volume control knob			044-372
	Balance control knob			044-372
	Loudness control knob			044-372
	Mode selector knob			044-372
	Input selector knob			044-372
	Treble knob (rear)			090-009
	Treble knob (front)			044-374
	Bass knob (rear)			090-009
	Bass knob (front)			044-374
	Phase knob			044-373
	Center channel knob			044-373

C 26

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C304	Elect.	160/200µF 200/150V		066-095
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C306	Mylar	.22µF	250V	064-068
C307	Elect.	100µF	16V	066-226
C308	Elect.	100µF	16V	066-227

DIODES

D301,302	Si. rectifier	070-031
D303	Zener diode 75V	070-025

FUSES

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TRANSISTORS

Q1,2	Si. PNP transistor	132-096
Q3,4	Si. PNP transistor	132-096
Q5,6	Si. NPN transistor	132-095
Q7,8	Si. NPN transistor	132-095
Q9,10	Si. PNP transistor	132-096
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Q13,14	Si. NPN transistor	132-092
Q15,16	Si. NPN transistor	132-042
Q301	Si. NPN transistor	132-095
Q302	Si. NPN transistor	132-028

POTENTIOMETERS

R33	Volume control	134-200
R55	Loudness control	134-199
R56	Balance control	134-198
R304	Center channel level	134-196

RESISTORS

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R203,204	Wirewound	16Ω	10%	20W	139-022

SWITCHES

S1	Input selector switch	146-121
S2	Pushbutton switch	150-006
S3	Mode selector switch	146-122
S4	Phase control switch	146-119
S5	Bass switch	146-123
S6	Treble switch	146-123
S201,202	Speaker switch	148-025

TRANSFORMERS

T301	Power transformer	043-786

MODULES

Tone control	130-027

LAMPS

#1866 (front panel)	058-014

FRONT PANEL AND TRIM

Front panel	043-784
Front panel end caps	018-120
Volume control knob	044-372
Balance control knob	044-372
Loudness control knob	044-372
Mode selector knob	044-372
Input selector knob	044-372
Treble knob (rear)	090-009
Treble knob (front)	044-374
Bass knob (rear)	090-009
Bass knob (front)	044-374
Phase knob	044-373
Center channel knob	044-373
Plastic Pushbutton	017-128

MOUNTING SYSTEM

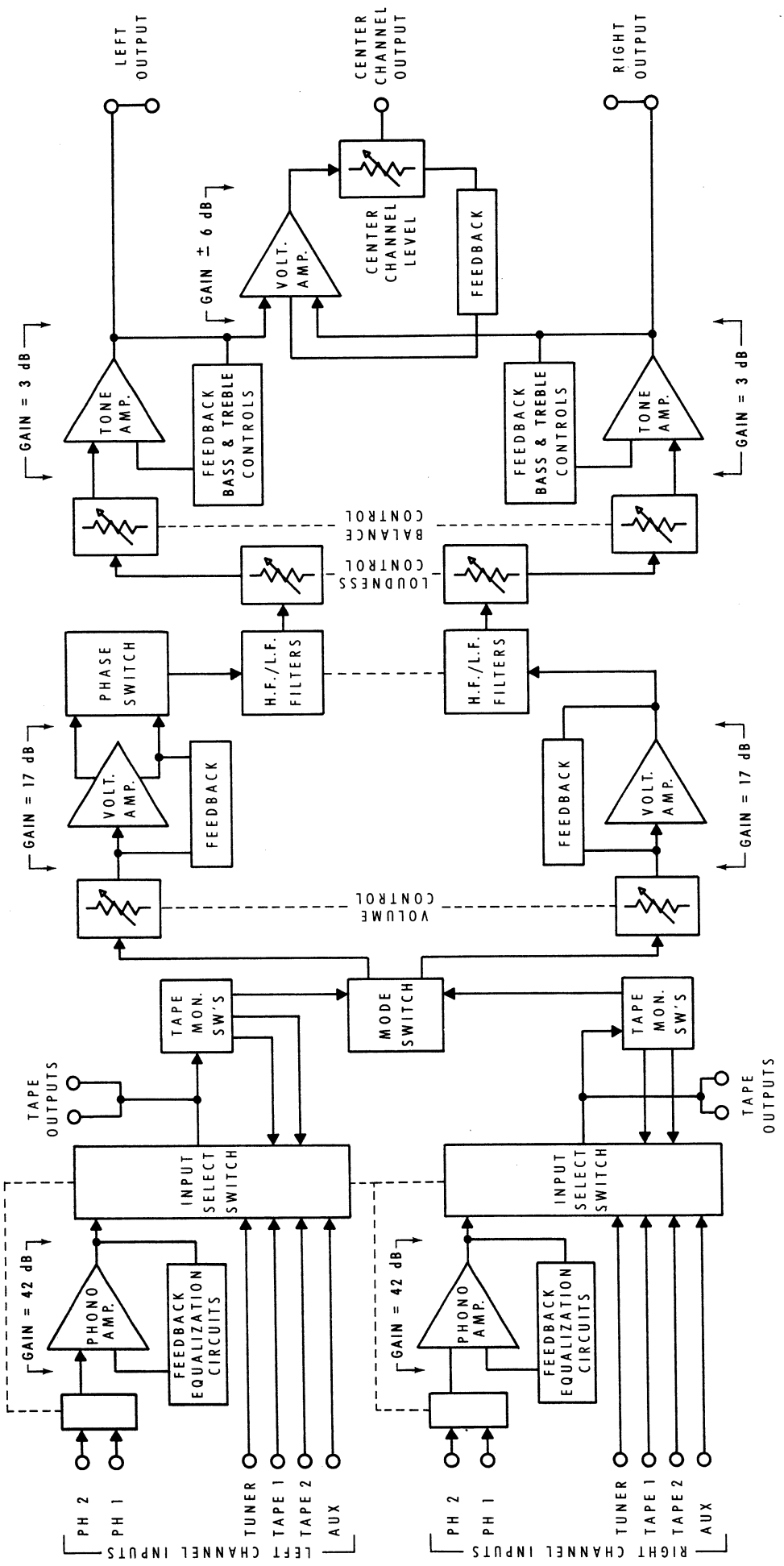
Shelf bracket (right)	043-592
Shelf bracket (left)	043-593
Mounting template #100	038-179
Hardware package	043-792

MISCELLANEOUS ITEMS

Line cord	170-021
Fuseholder	178-001
Shipping carton	043-946
Owners manual	038-867
Plastic feet	017-041
Shorting plug	127-001
Push terminal (outputs)	074-030
Audio cable (6')	170-015

15C0407S7-M6964

C 26 SCHEMATIC PART NO. 038-964



C 26 BLOCK DIAGRAM

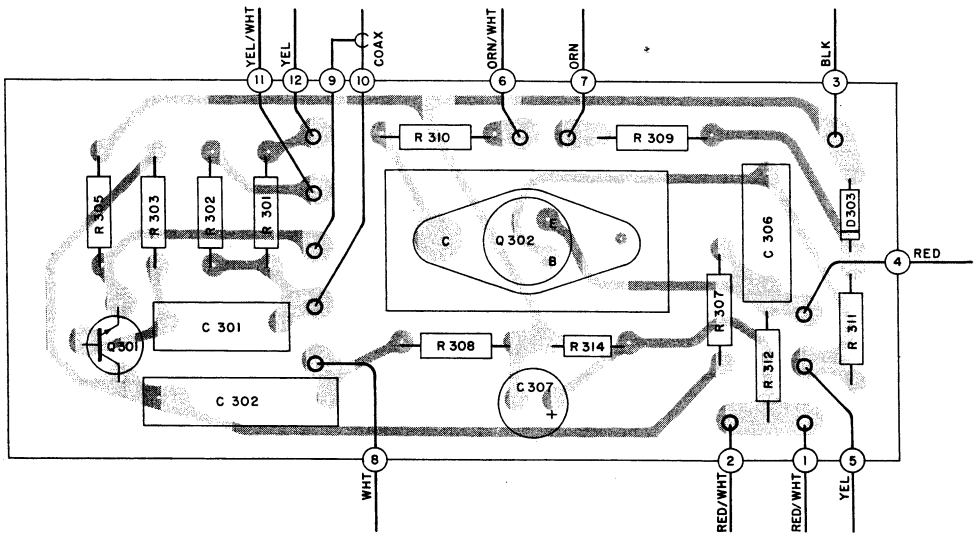
SCHEMATIC NOTES

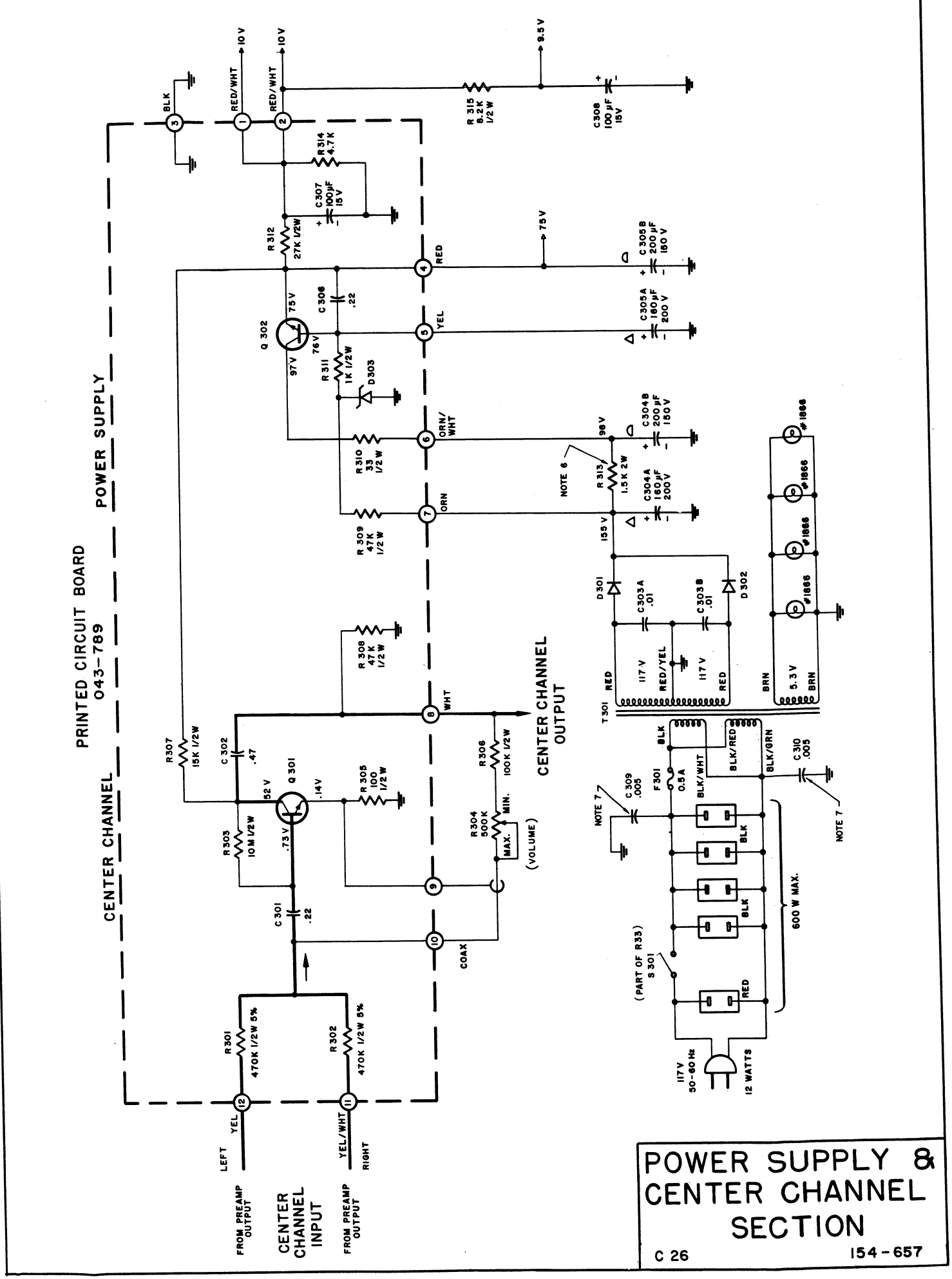
1. Unless otherwise specified: Resistance values are in ohms, 1/4 watts, and 10% tolerance; capacitance values smaller than 1 are in microfarads (μF); capacitance values greater than 1 are in picofarads (pF); inductors are in microhenries (μH).
2. Printed circuit board components are outlined on the schematics by dotted lines. The circled numbers around the dotted lines correspond to the numbers on the PC Board layouts.
3. The heavy lines on the schematics denote the primary signal path.
4. The terminal numbering of rotary switches is for reference only.
5. All voltages indicated on the schematics are measured under the following conditions:
   a. Use of an 11 megohm input impedance VTVM.
   b. All voltages ± 10% with respect to chassis ground.
   c. No signal at input terminals.
   d. AC input at 117 volts, 50/60Hz.
   e. Front panel controls at:

Volume	Fully CCW, but with power switch on
Mode	Stereo
Input Selector	Phono 1
Loudness	Flat

   All other controls at normal positions.
6. R313 is 1K in early units.
7. In units with serial No's below 30P55, C309 and C310 are not used.
8. In units with serial No's below 30P50, R127 and R128 are not used.
9. In units with serial No's below 30P53, R129 and R130 are not used.
10. In units with serial No's below AG3301; C3, C4, C13 & C14 are used; C48, C49, C50, C51, C52 C53, R131 & R132 are not used; R129 & R130 are 1M.
11. In units with serial No's below AG1222; R25 & R26 are 1.8K.

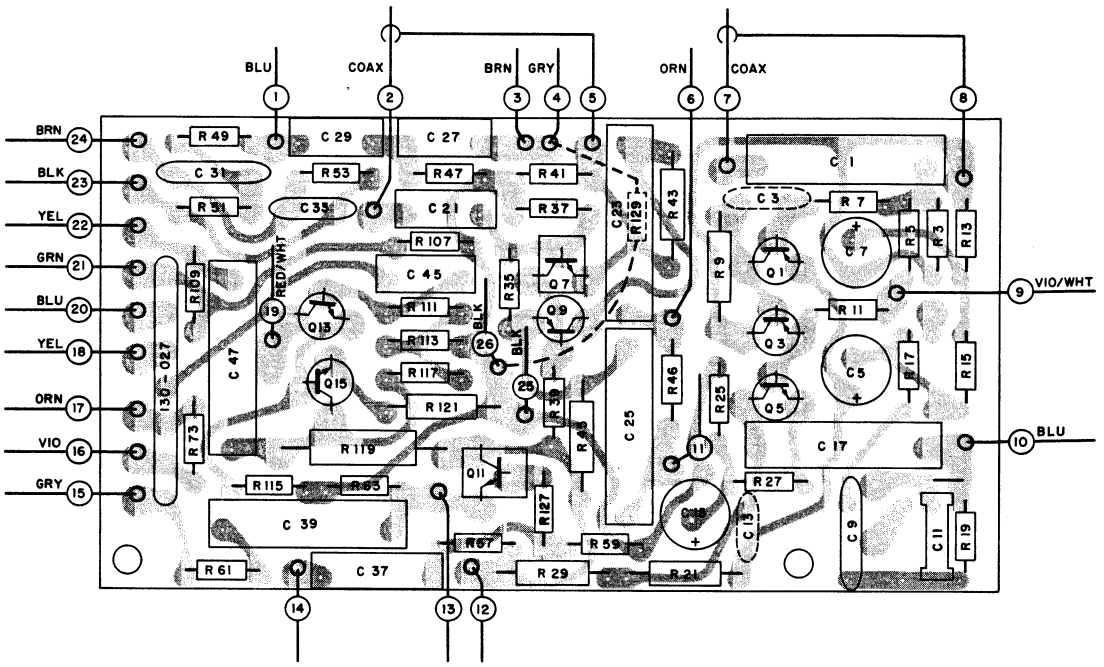
POWER SUPPLY AND CENTER CHANNEL SECTION
PRINTED CIRCUIT BOARD 043-789



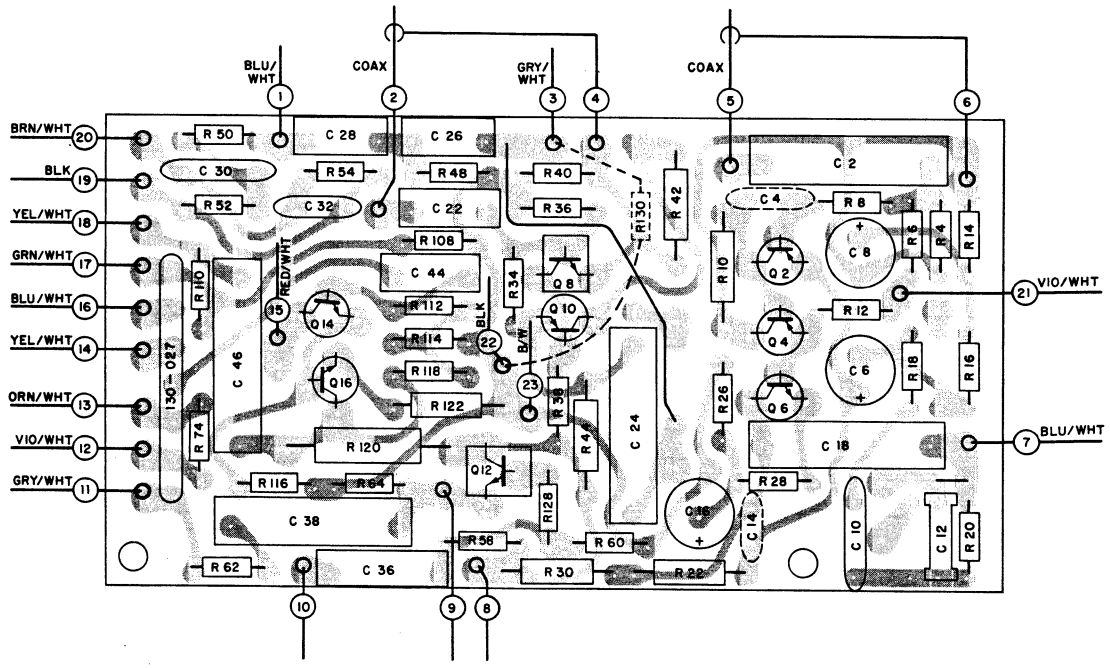


POWER SUPPLY & CENTER CHANNEL SECTION

C 26 154-657



LEFT CHANNEL PREAMP PRINTED CIRCUIT BOARD 044-554



RIGHT CHANNEL PREAMP PRINTED CIRCUIT BOARD 044-553